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ABSTRACT

This publication contains brief articles concerned with modular school structures. The articles offer examples of such structures at actual schools. The articles in this issue are: (1) "Elementary K-8 Modular Courtyard"; (2) "School District #33, Chilliwack, BC"; (3) "New Elementary School for Briarwood, NY"; (4) "Addition to Queens Intermediate School"; (5) "Elementary School Addition for Patterson, NJ"; (6) "Federal Way Public Academy"; (7) "Awakening Seed School"; (8) "Challenge Charter School"; (9) "Flagstaff Montessori School"; (10) "Gateway Headstart"; (11) "J. P. Ryon Elementary School Gets Temporary Classrooms"; (12) "Hartfound County, Md. Gets New Classrooms"; (13) "Children First Daycare Center"; (14) "Central High School"; (15) "College Wood Elementary"; (16) "Private School Addition, Toronto, Ontario, Canada"; (17) "Portable Classroom, Burlington, Ontario, Canada"; (18) "Echo Shaw Elementary School, Cornelius, Oregon"; (19) "Educational Classrooms, New York, New York"; (20) "Dillard University Dormitory New Orleans, Louisiana"; (21) "Temporary Classrooms, Houston, Texas"; (22) "Inland Hill Church Educational Building, China, California"; (23) "Daycare Center, Richmond, Texas"; (24) "Josiah Quincy Upper School, Boston, Massachusetts"; (25) "Special Education Building, Oberlin, OH"; (26) "St. Maximilian Kolbe Church, West Chester, Pennsylvania"; (27) "Permanent Daycare Center, Buffalo, New York"; (28) "Woodmont Academy, Woodstock, Maryland"; (29) "Life Christian Academy, Riverside, California"; (30) "Brice Christian Academy, Columbus, Ohio"; (31) "Cincinnati Country Day School, Cincinnati, Ohio"; and (32) "Bellevue Daycare Center, Bellevue, Washington." (EV)

Modular Building Institute 2000 Educational Showcase

Elementary K-8 Modular Courtyard
School District #33, Chilliwack BC
New Elementary School for Briarwood, NY
Addition to Queens Intermediate School
Elementary School Addition for Patterson, NJ
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Dillard University Dormitory New Orleans, Louisiana
Temporary Classrooms Houston, Texas
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Elementary Education, Grades K--8
Portland, Oregon

Blazer Industries, Inc. and Commercial Mobile Structures designed over 25,000 sq. ft. of temporary classroom space for this growing private school. The individual factory-built buildings are situated around a courtyard and are tailored to meet the needs of several different age groups. The exterior finish of the modular units compliment other permanent site-built buildings.

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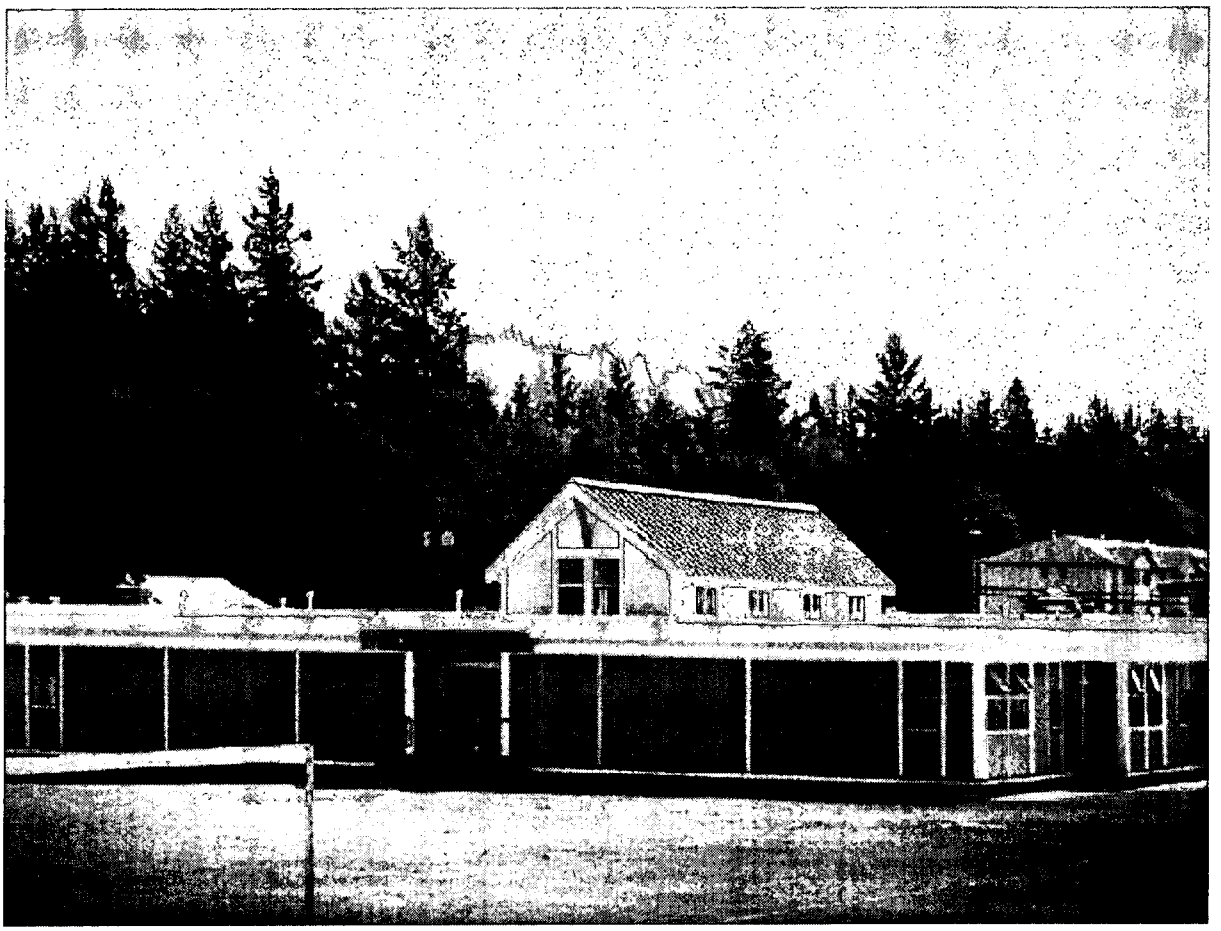

School District #33
Chilliwack, British Columbia, Canada

Britco Structures worked closely with Cilliwack school's architect to provide a modular addition that matched the interior and exterior appearance of the existing school. The modular buildings were positioned to create four classrooms opposite each other across a 15 ft. corridor. The classrooms total 8,382 sq. ft. and took only 66 days to complete.

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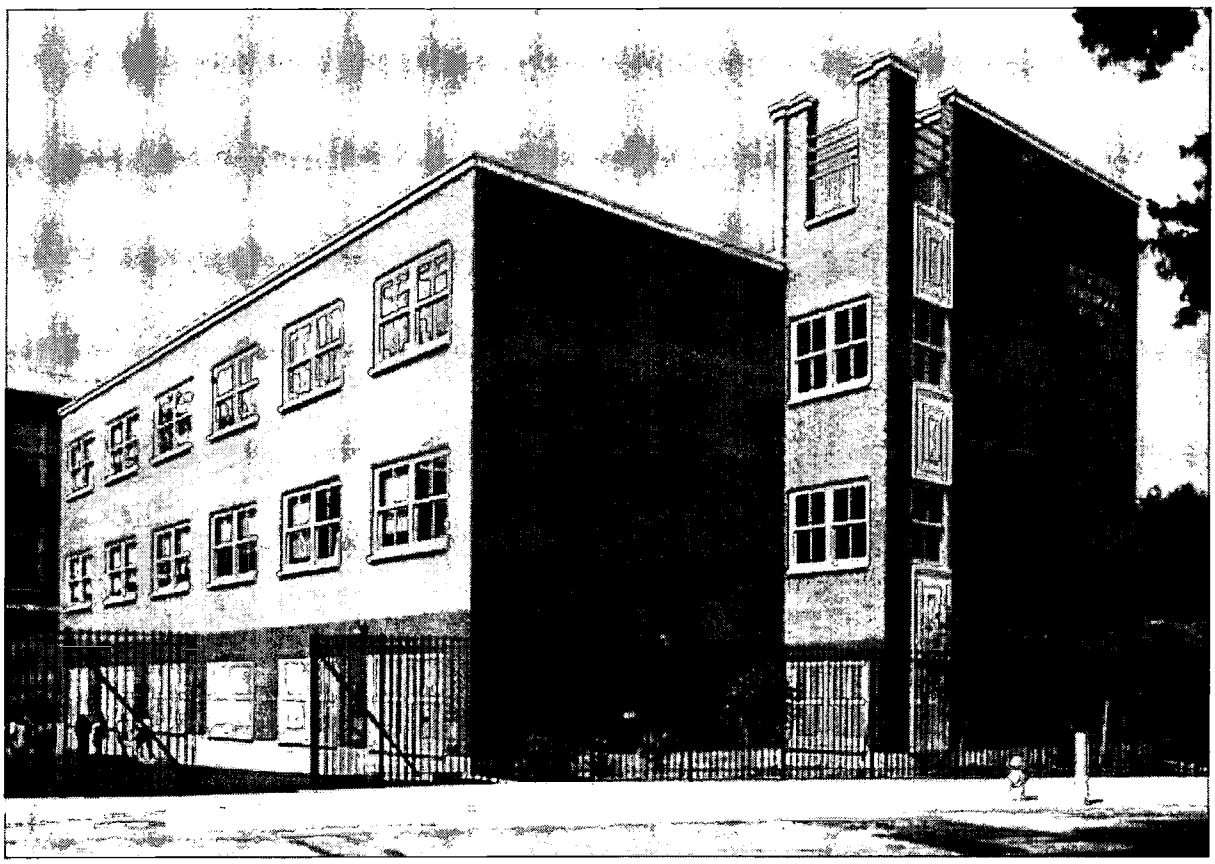

PS 117 Elementary School
Briarwood, New York

When building school additions on tight urban sites, like this one by Kullman Industries, modular construction is ideal when it comes to safety. The job site is kept clean until the day modular units arrive. This 20,000 sq. ft. three-story addition has a brick exterior while the interior features ceramic tile in the halls and restrooms. Renovations were complete in 240 days.

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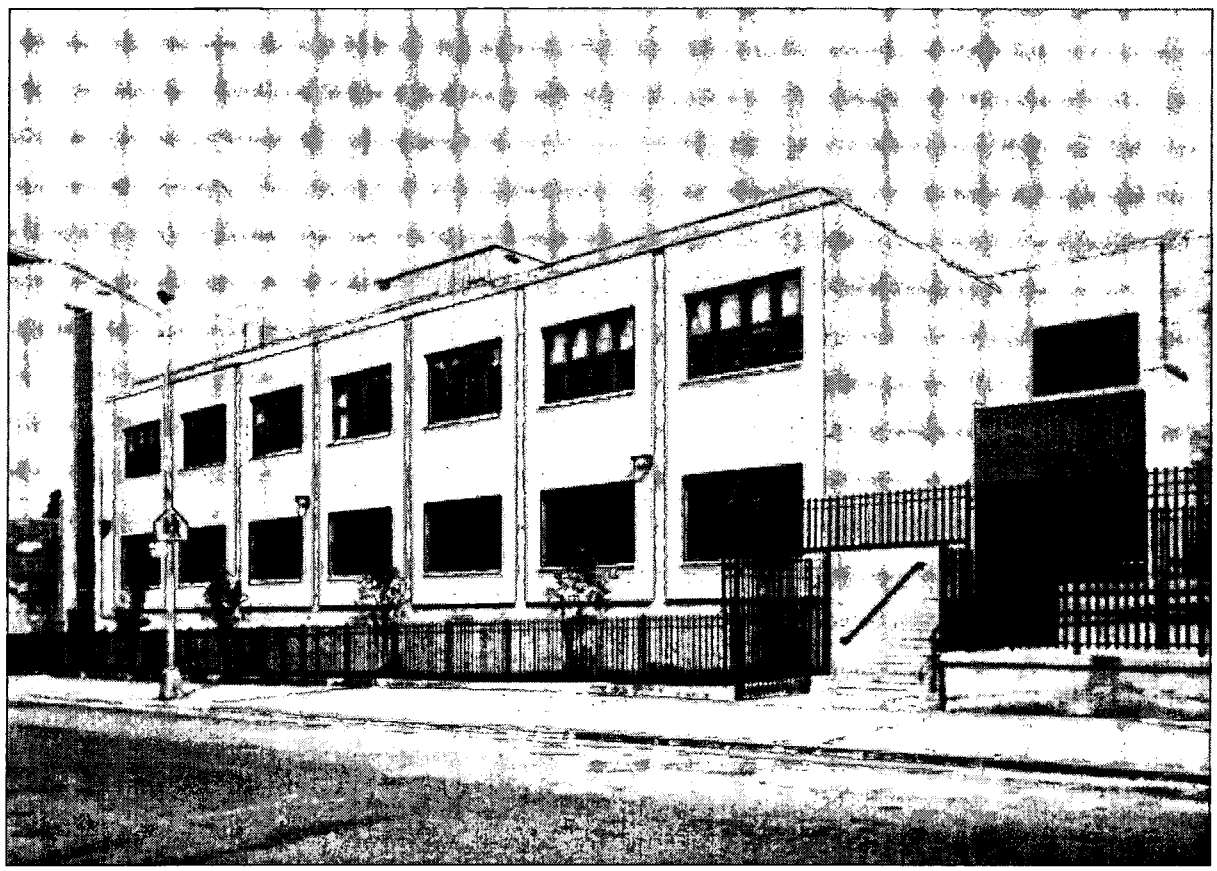

IS 210 Intermediate School
Queens, New York

Kullman Industries also designed this 15,700 sq. ft. school addition in Queens. It's comprised of 51 factory-built units arranged around a central corridor. There are stair and elevator modules where the addition meets the existing building. Brick and cast stone panels were installed at the factory as well as interior ceramic tile. It took six months to complete the project.

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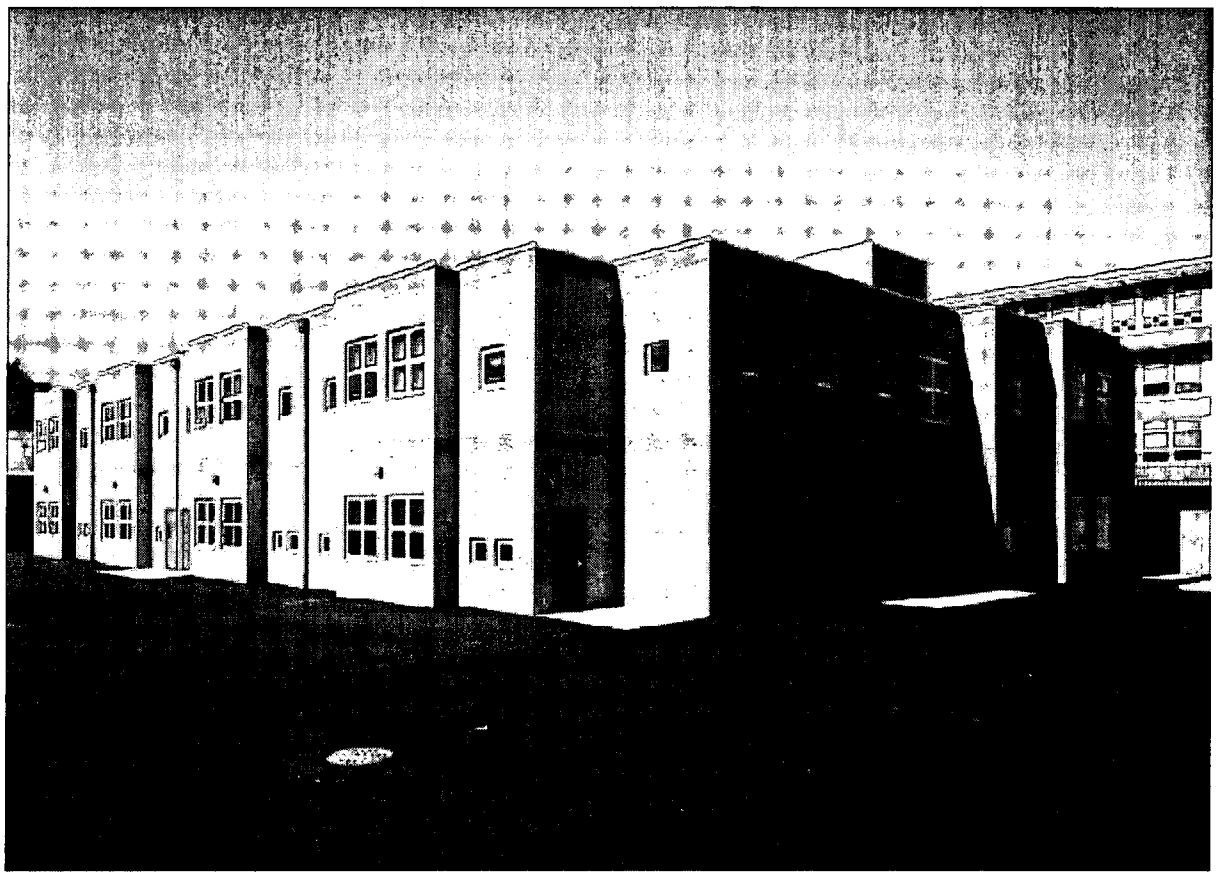

PS 27 Elementary School
Paterson, New Jersey

The exterior of this 30,000 sq. ft. school addition is primarily brick, while windows of various sizes give it a distinctive look. Designed by Kullman Industries, the project consists of eight kindergarten classrooms, seven regular classrooms, two small group instruction rooms, a teacher's lounge, mini auditorium, and science laboratory, all completed in 150 days.

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Federal Way Public Academy
Federal Way, Washington

School officials wanted a completely self-contained school within a school at Illahee High School. So, Blazer Industries and Mckinney Mobile Modular provided three double-wide modular units with five classrooms and an office totaling 5,400 sq. ft. Inside there are custom power drops for science labs and custom cabinetry. Complete in 15 days, the project cost US$ 37 per sq. ft

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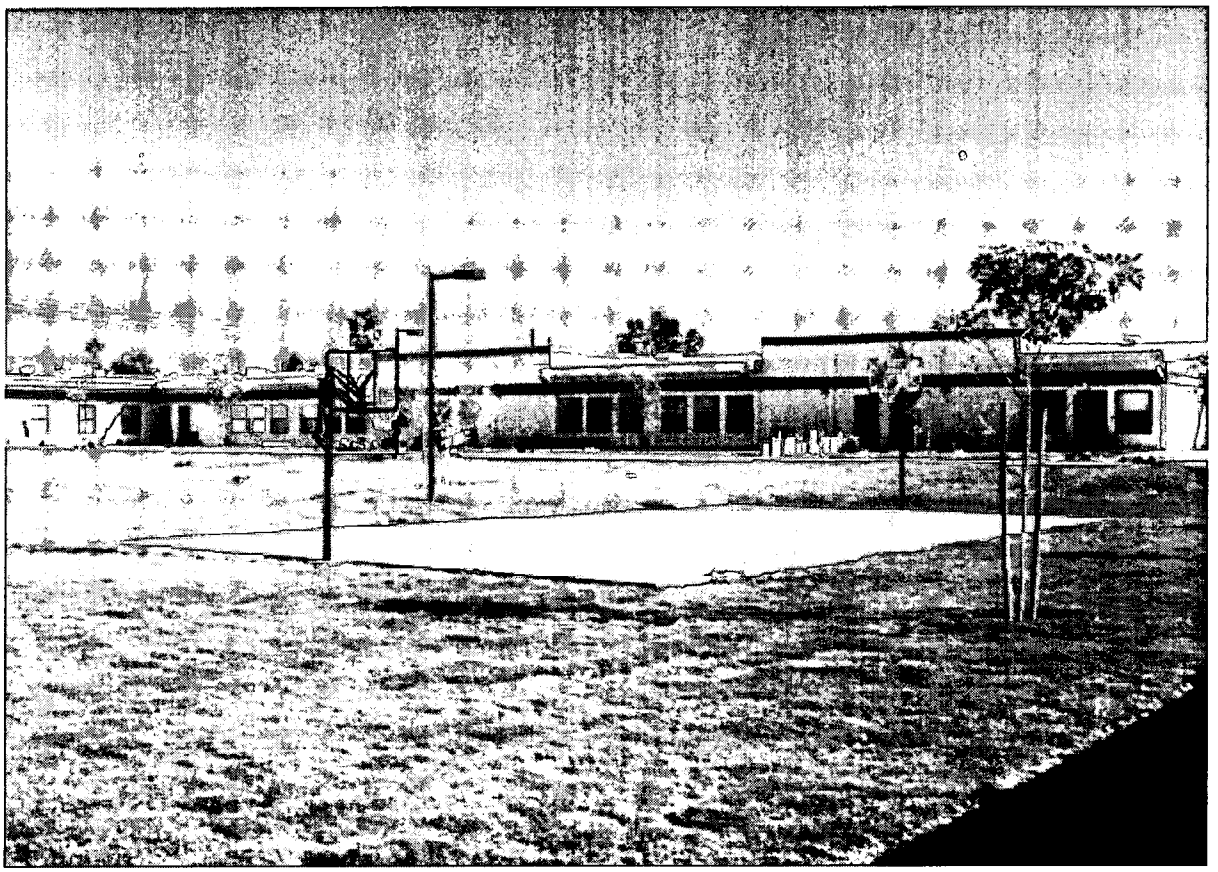

Awakening Seed School
Tempe, Arizona

Officials at this elementary school wanted a school building that emphasized the arts and preserved the city's frontier heritage. Modular Technology designed 17 factory-built classrooms totaling 15,000 sq. ft. that complemented the natural surroundings. The classrooms were completed in 93 days and have 12 foot ceilings and communications, fire, and security systems.

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Challenge Charter School
Glendale, Arizona

Modular Technology designed this 450 student elementary school campus comprised of 44 factory-built units offering over 23,000 sq. ft. of educational space. The classrooms, cafeteria, transporation office, nurse's station, bus verandah, administrative offices feature varied roof pitches to create visual interest. The campus was completed in 134 days for US$ 74 per sq. ft.

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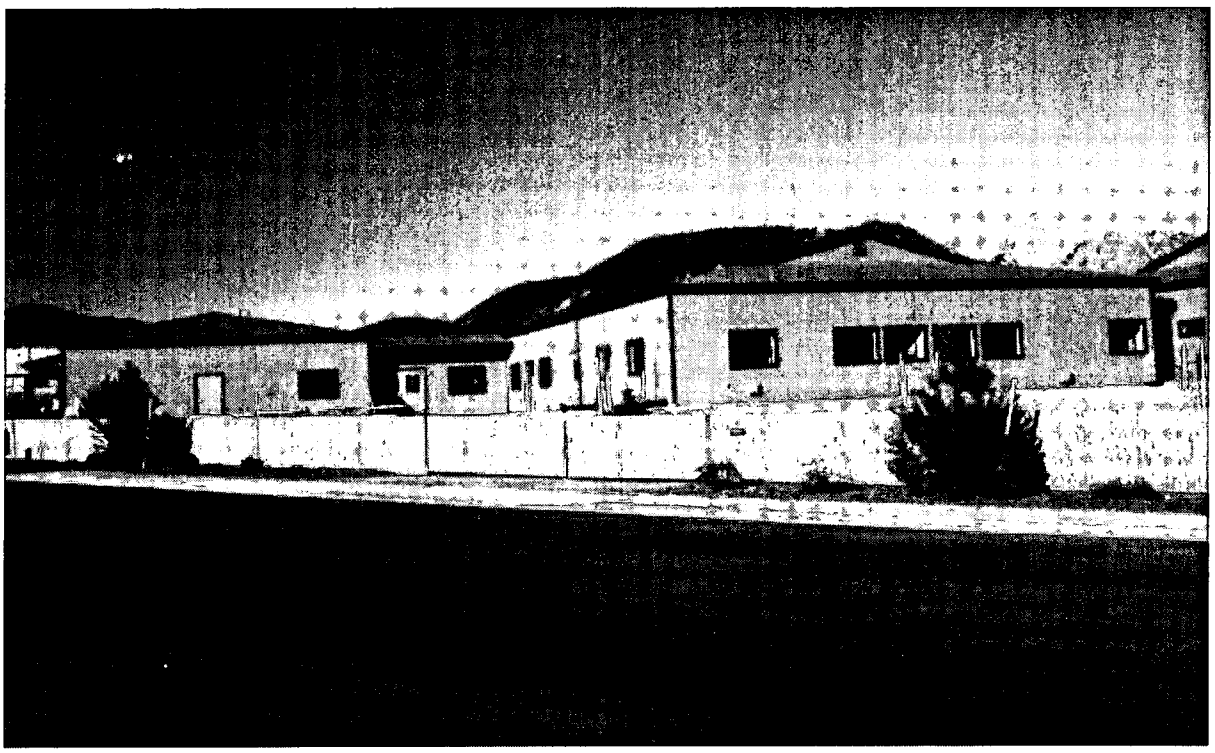

Flagstaff Montessori School
Flagstaff, Arizona

This elementary school campus was also designed and built by Modular Technology. It took only 150 days to complete the 14 modules of more than 6,000 sq. ft. To achieve an alpine look and accommodate for heavy winter snows, lap-siding with a high-pitched roof was used along with an indoor corridor system connecting individual classrooms, restrooms, and kitchens.

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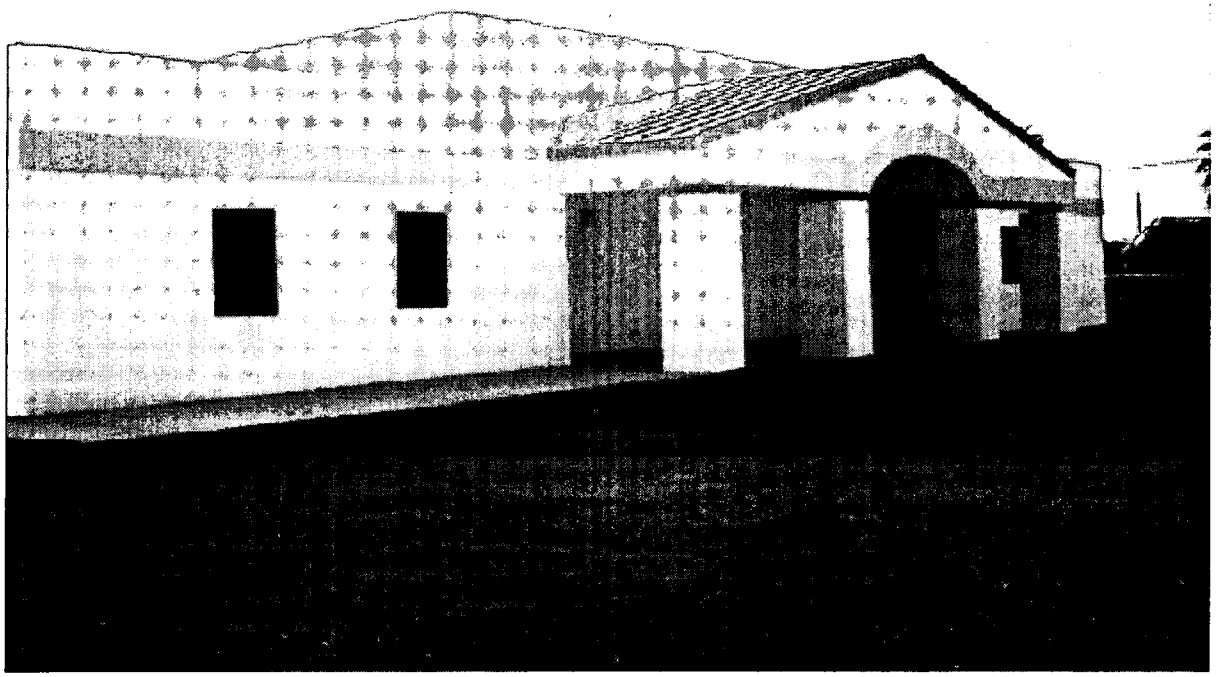

Gateway Headstart
Phoenix, Arizona

Modular Technology was given only 90 days to complete classrooms for a federally-funded academia program for three year olds, but completed the project in 76 days. The building is 2,500 sq. ft. and is made from five modular units. Its stucco exterior and seam-metal roofing are virtually maintenance-free and match the other site-built building perfectly.

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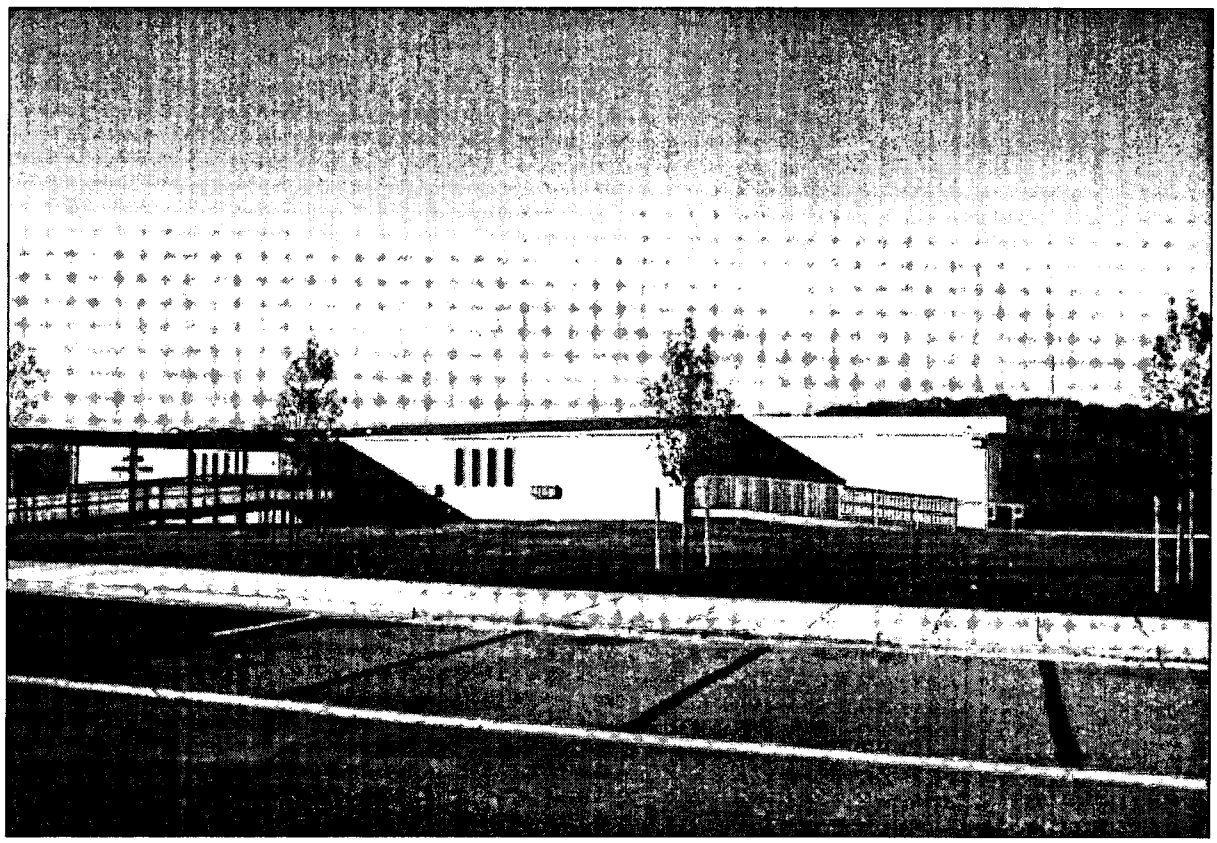

J.P. Ryon Elementary School
Waldorf, Maryland

Students and teachers needed to be relocated to temporary classrooms while renovations were going on at their permanent school building. Modular Design Technology and Forest River/Premiere Structures Division put together 36 modular units of 30,000 sq. ft. in 126 days. There are 26 classrooms, five restrooms, a main office, a computer room, and a parents' room.

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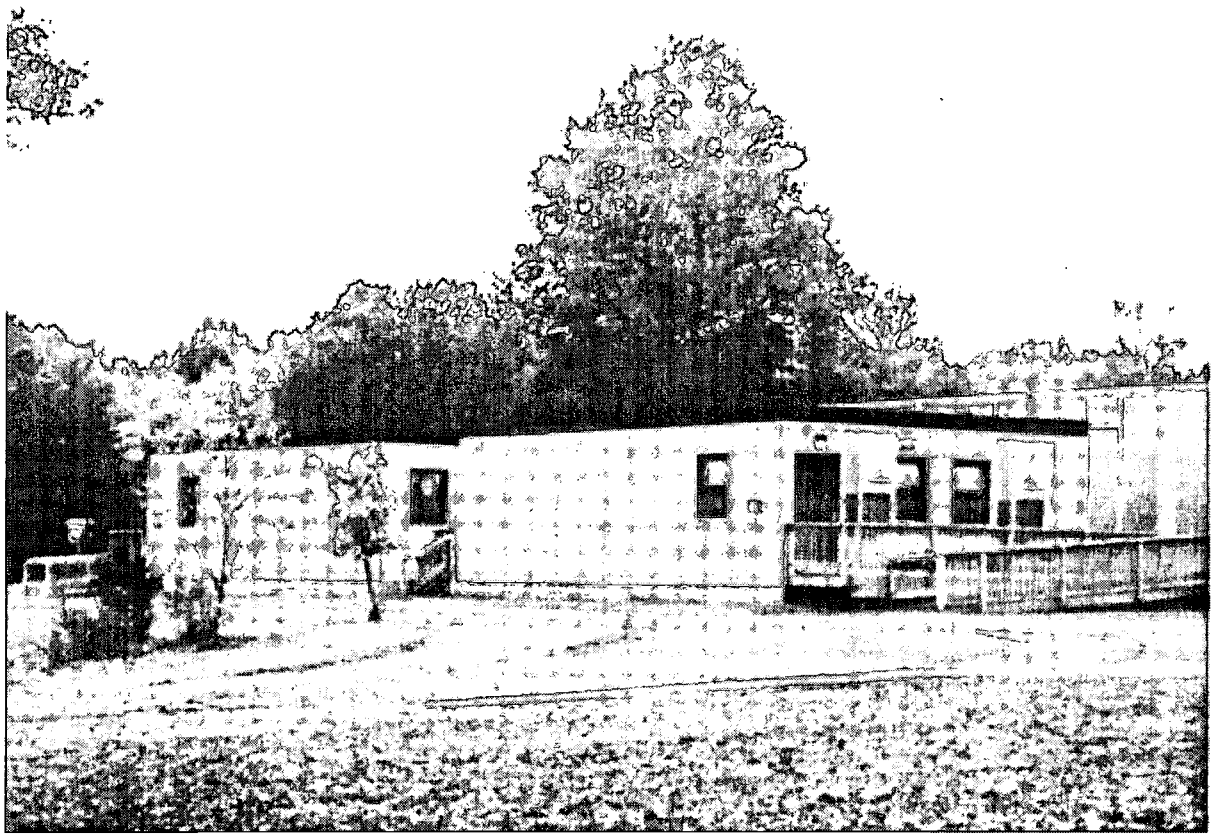

Hartford County Middle & High Schools
Hartford County, Maryland

It took Modular Design Technology and NRB, Inc. only 42 days to complete new classrooms for Hartford County school officials. The 1,728 sq. ft. buildings were designed to allow for relocatability throughout the district. Constructed totally of steel and concrete, the modular classrooms are practically maintenance-free, are vandal resistant, and should last indefinitely.

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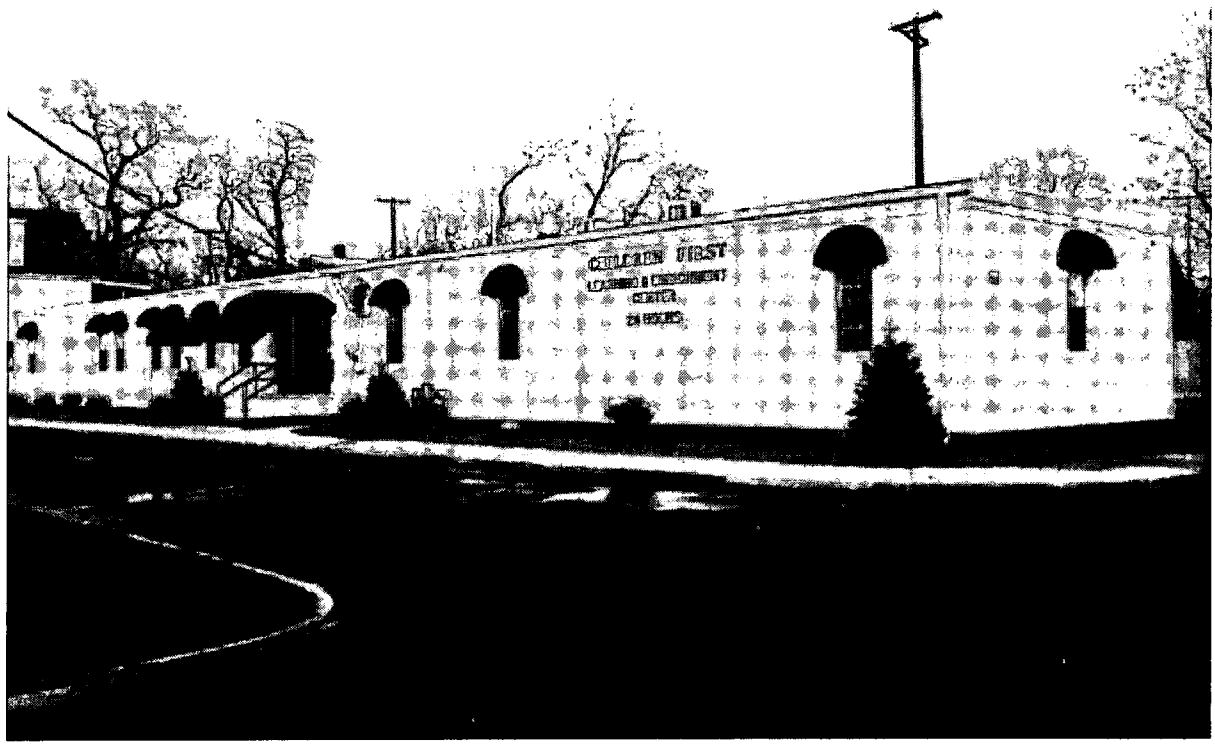

Children First Daycare Center
Cleveland, Ohio

This building, part of a city-wide rejuvenation effort, is located in a growing area of Cleveland. Colorful finishes and child-sized amenities create a fun and warm environment just right for kids. Modular Design Technology and Whitley Manufacturing created the 7,392 sq. ft. daycare center in four weeks. The wood-framed modular structure saved the center 10% in costs

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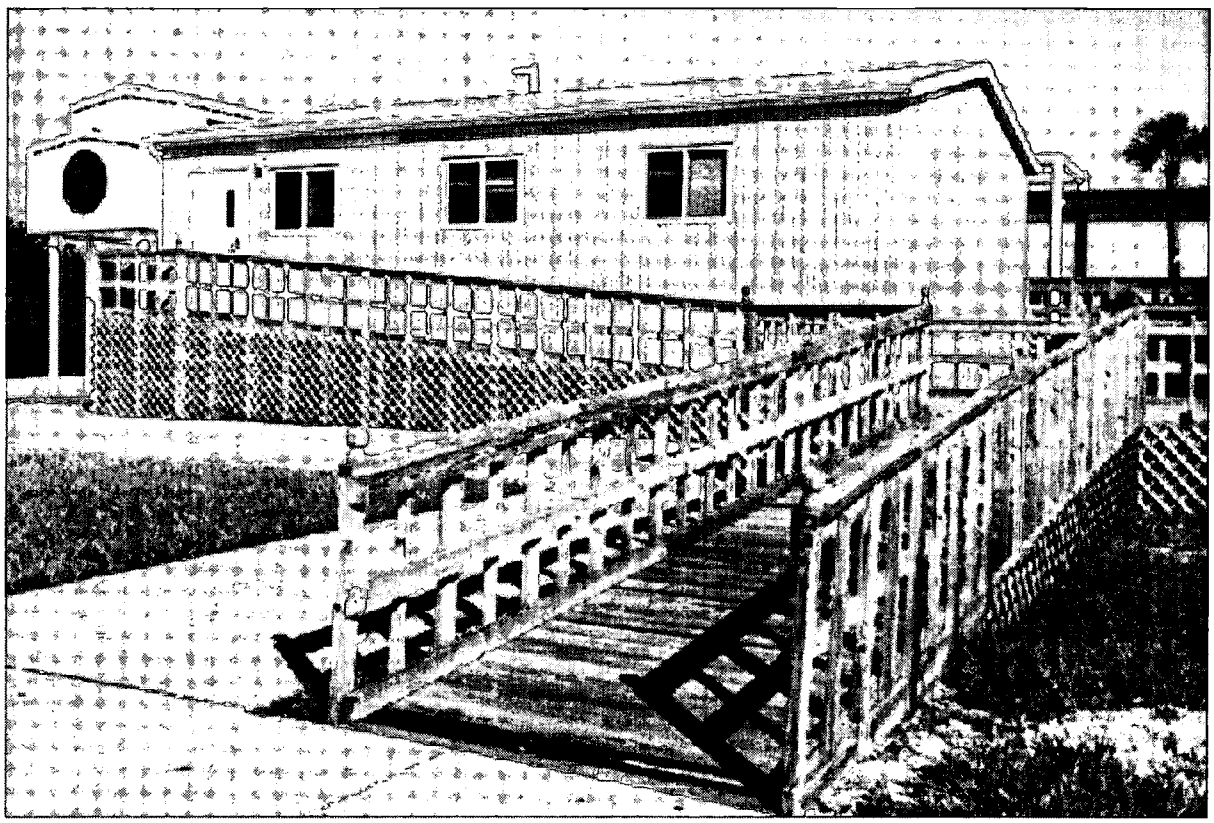

Central High School
Brooksville, Florida

ADA-compliant decking and ramps provide attractive, easy access to modular classrooms at Central High School. The portable buildings by New Castle Modular Specialties are 864 sq. ft. and took only 14 days to complete. They feature acoustical ceiling tiles, oak veneer paneling, and lockable storage space. The units are also constructed to withstand 110 m.p.h. winds.

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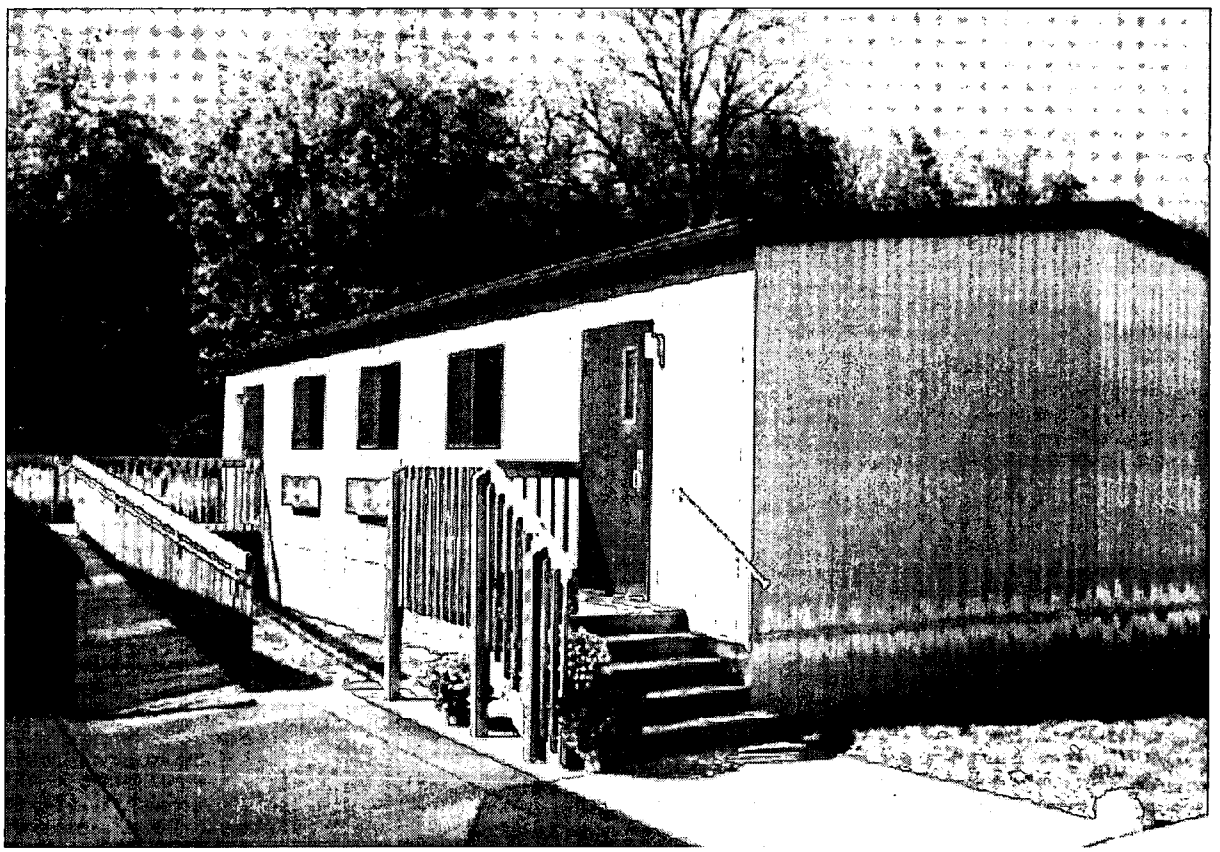

College Wood Elementary
Carmel, Indiana

The smooth finish of aluminum siding with no exposed fasteners gives College Wood Elementary's new classrooms a clean, shiny look. The single building is made up of two modular units joined together providing students more than 1,050 sq. ft. of learning space. New Castle Modular Specialties built and delivered the portable classroom in only 14 days.

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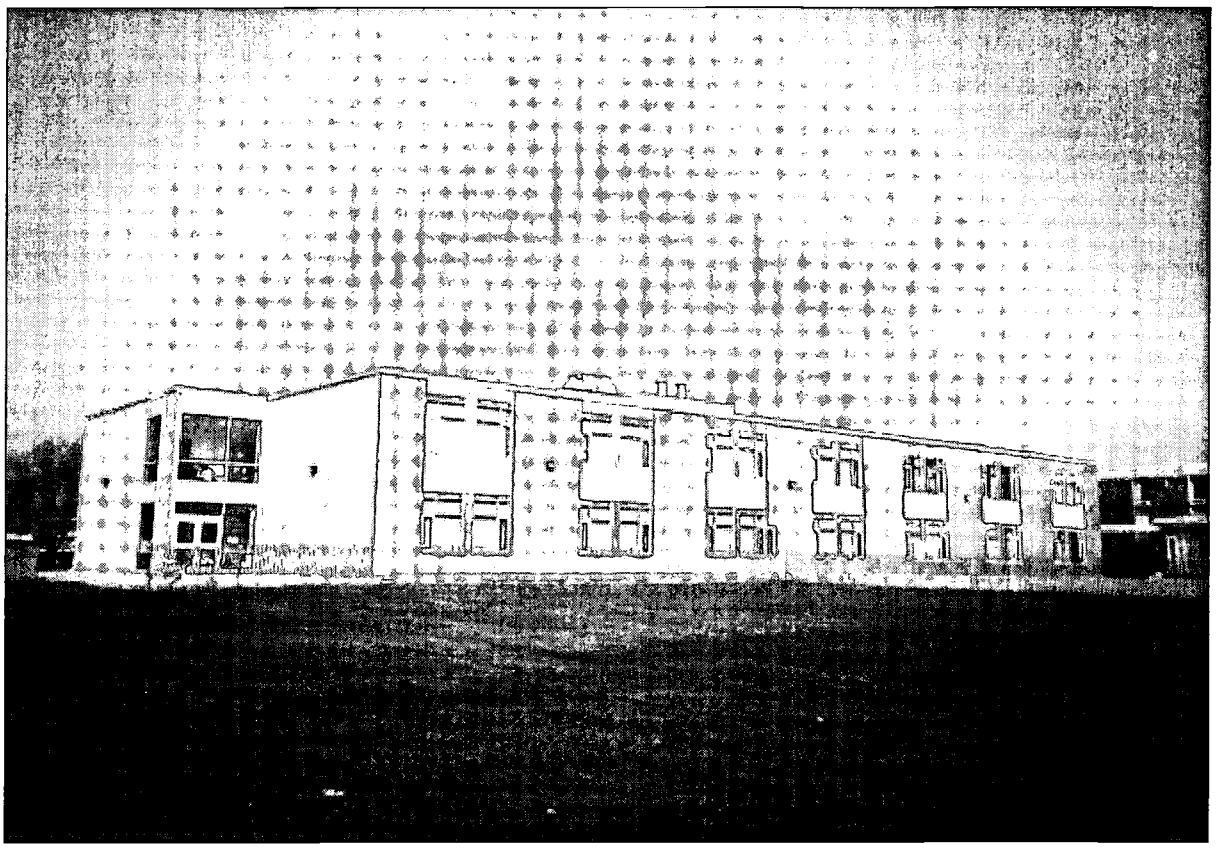

Private School Addition
Toronto, Ontario, Canada

This building by NRB, Inc. is constructed using structural steel framing with reinforced pre-poured concrete floors. Its brick exterior matches that of the existing school building, as do the new windows and interior and exterior colors. Each classroom has two large windows offering outside air is so desired. The 28,000 sq. ft. addition took 6 weeks to complete.

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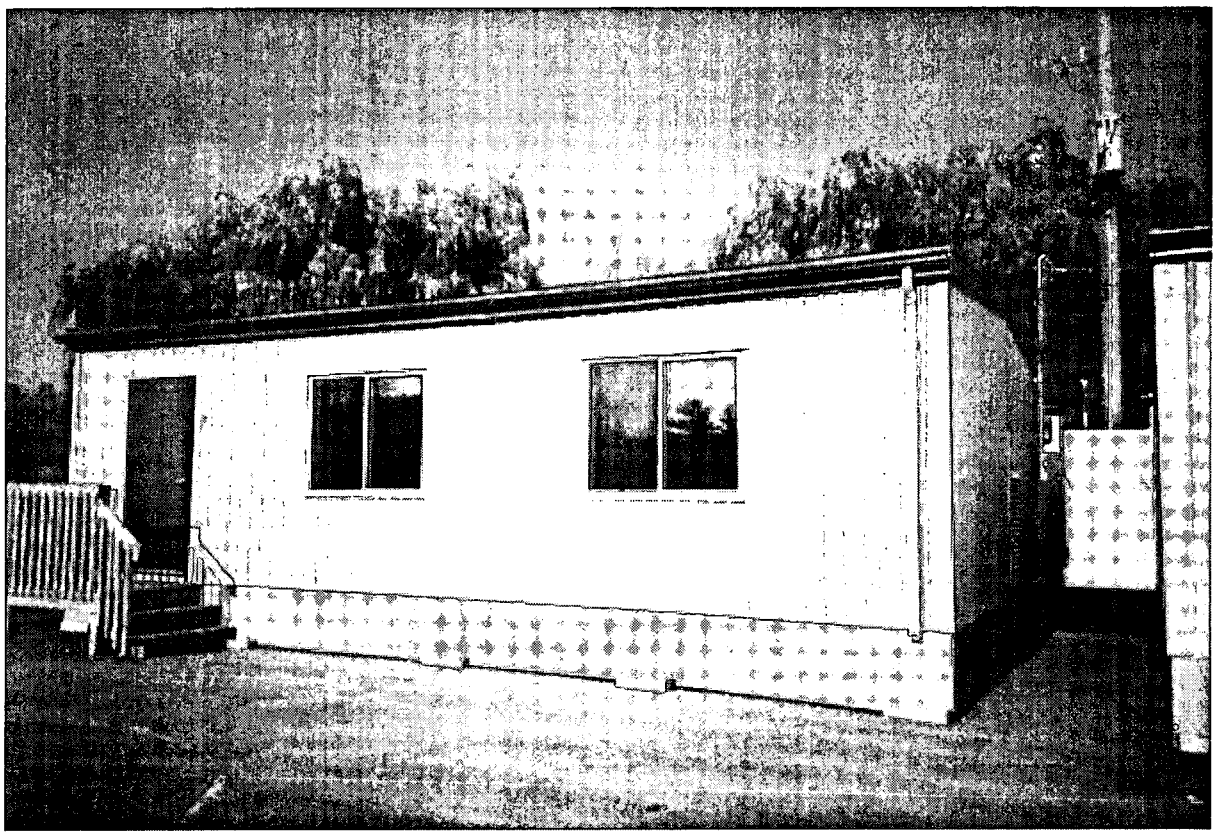

Portable Classroom
Burlington, Ontario, Canada

This classroom, built by NRB, Inc., is a prototype designed to help school systems in their fight against mold and poor indoor air quality. In its construction, NRB used as little organic or cellulose material as possible, including paperless sheetrock, vinyl floor tile, and steel framing. Two modular units make up the 736 sq. ft. classroom, which was built in 40 days.

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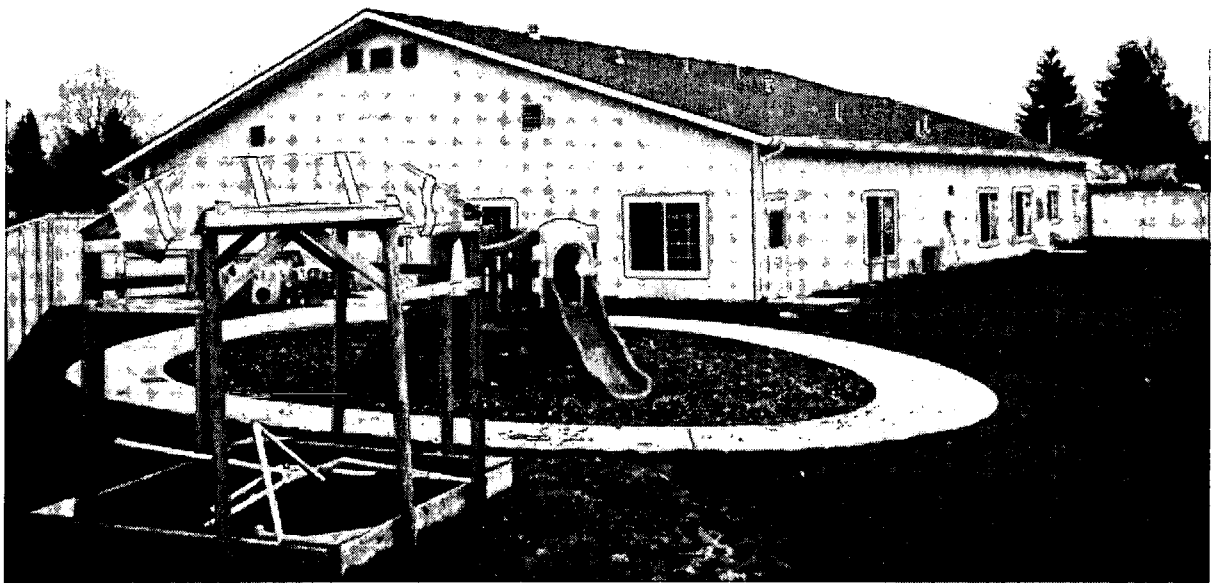

Echo Shaw Elementary School
Cornelius, Oregon

This building was designed to fit into a neighborhood setting at the edge of an existing school campus. Built by Blazer Industries for Pacific Mobile Structures, the selection of building materials, shape of the structure, and colors used were selected to reflect the architecture of nearby homes. The building boasts over 7,500 sq. ft. and took 105 days to complete.

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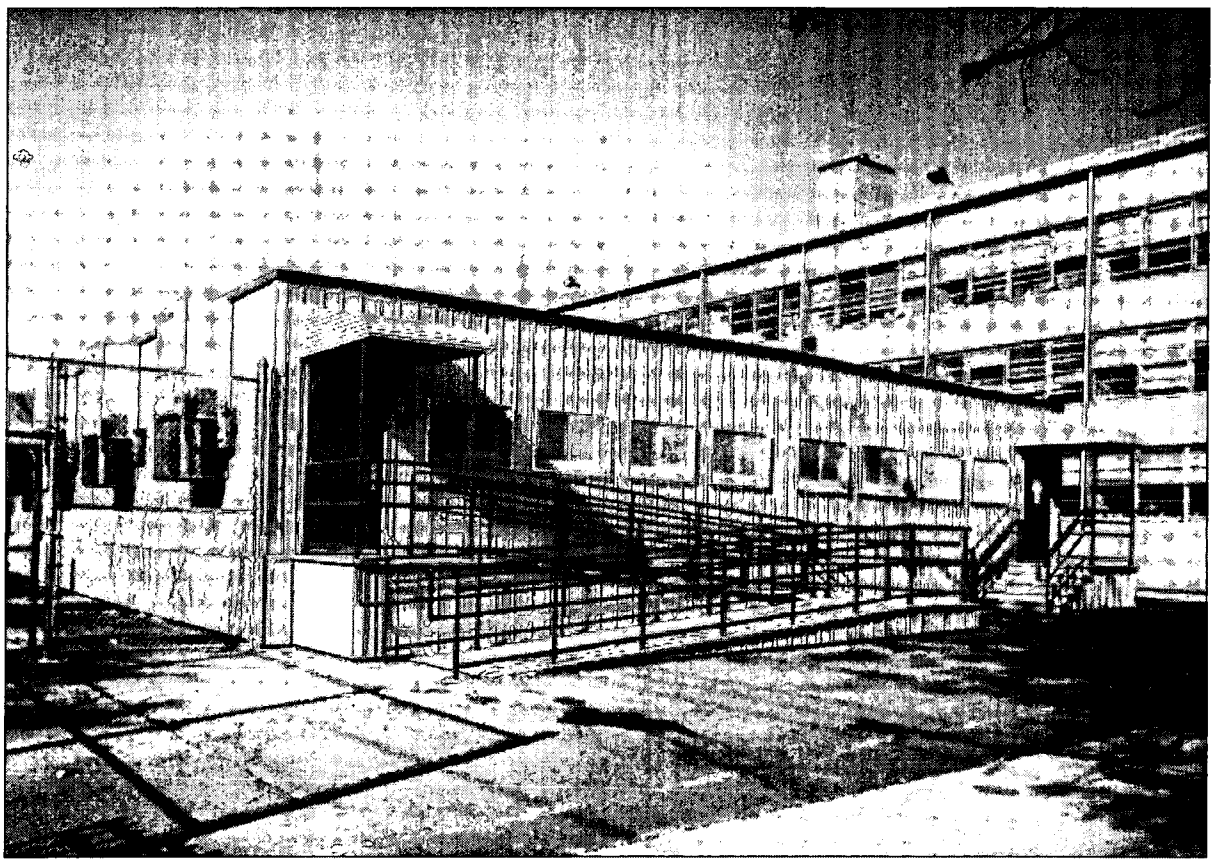

Educational Classrooms
New York, New York

In five months, Provincial Partitions and Kullman Industries completely installed 60 modular classrooms for a New York City school system. The classrooms total more than 80,000 sq. ft. and have cost effective features including light steel framing to reduce shipping weight, easy disconnection for ease of relocation, and all furnishings including chalkboards and tackboards.

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Dillard University Dormitory
New Orleans, Louisiana

This dormitory provides temporary housing for 168 university coeds in an environment conductive to learning. Built by Ramtech Building Systems, efficient space planning integrated dorm rooms with study areas, kitchens, laundry, and lounges. Individual rooms in the 38,000+ dorm have controlled heat pumps and insulated glass windows. The project was complete in 197 days.

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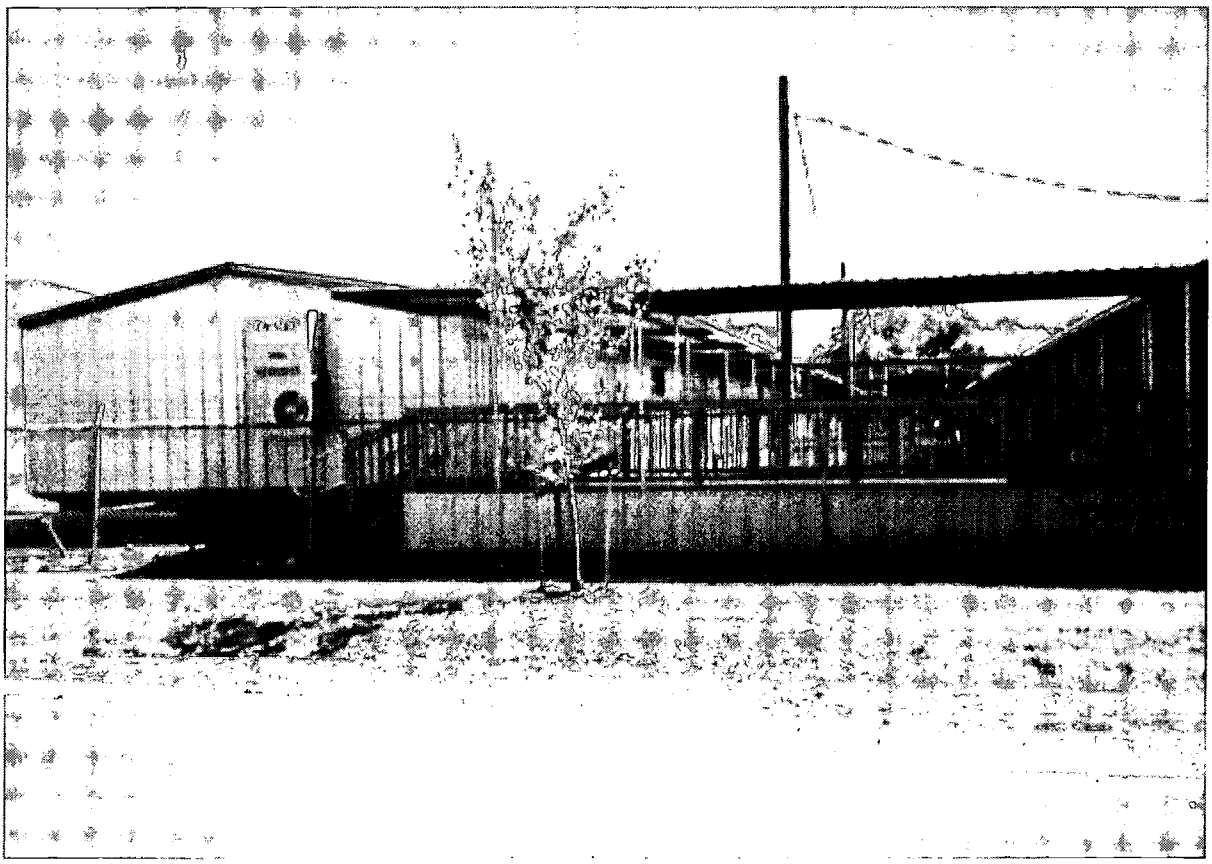

Temporary Classrooms
Houston, Texas

These classrooms by Resun Leasing Incorporated and Indicom Buildings were configured to incorporate 15,000 sq. ft. of decks, 6,000 sq. ft. of concrete, and 19,00 sq. ft. of canopy to form a "stand alone" campus for over 500 students in just 38 days.. The school's PTA was so impressed with the factory-built buildings, they asked that the buildings become the permanent school.

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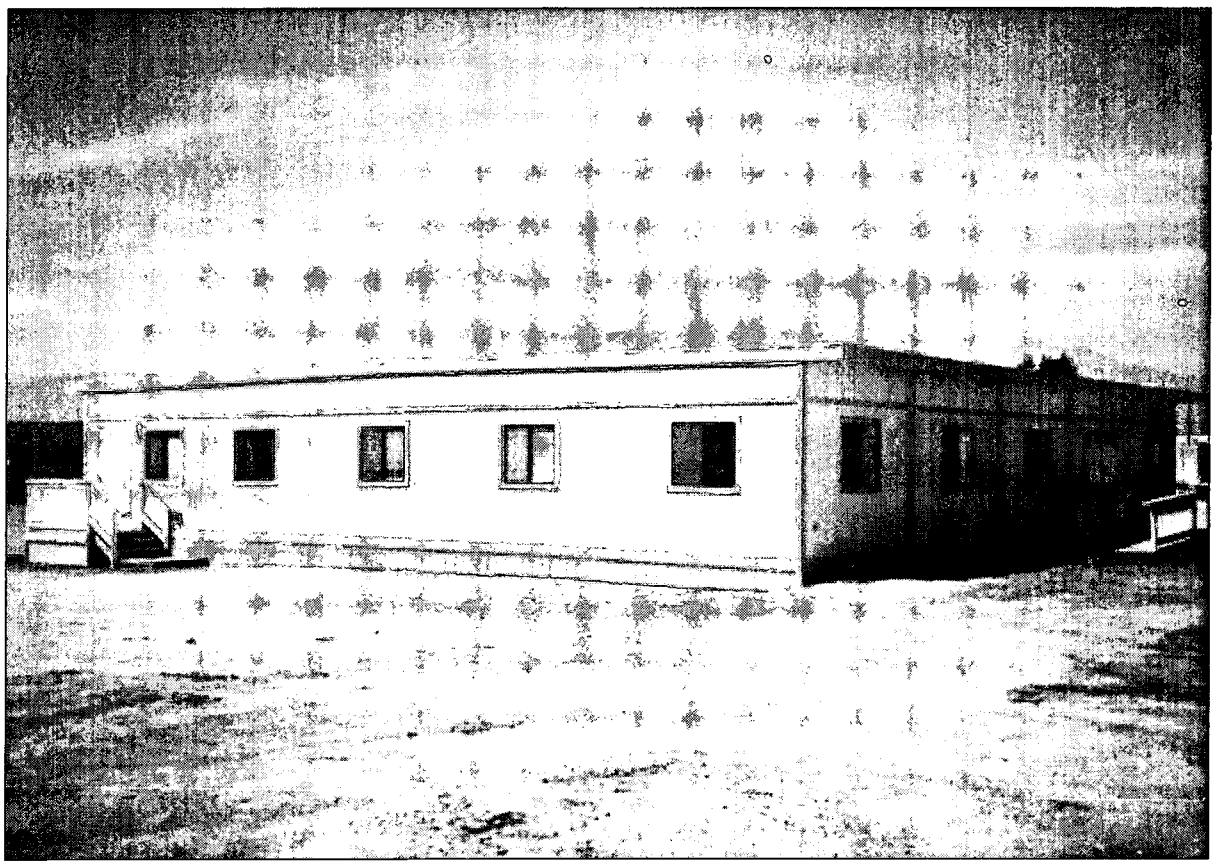

Inland Hill Church Educational Building
Chino, California

Fifteen modular units were arranged adjacent to a permanent sanctuary as a support campus for a church. The classrooms feature high-wear carpet and vinyl flooring and numerous windows. The exterior of the classrooms are painted to match existing buildings. Resun Leasing Incorporated and Modular Structures International completed the project in 30 days.

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Daycare Center
Richmond, Texas

Needing a building with an entrance at ground-level, Resun Leasing Incorporated and Porta-Kamp Manufacturing put together this daycare center, finished sitework, a 20,000 sq. ft. parking lot, civic work, utilities, foundation, and water detention all within 45 days. Use of a modular building now saved the owner over US$ 100,000 when building a permanent structure later.

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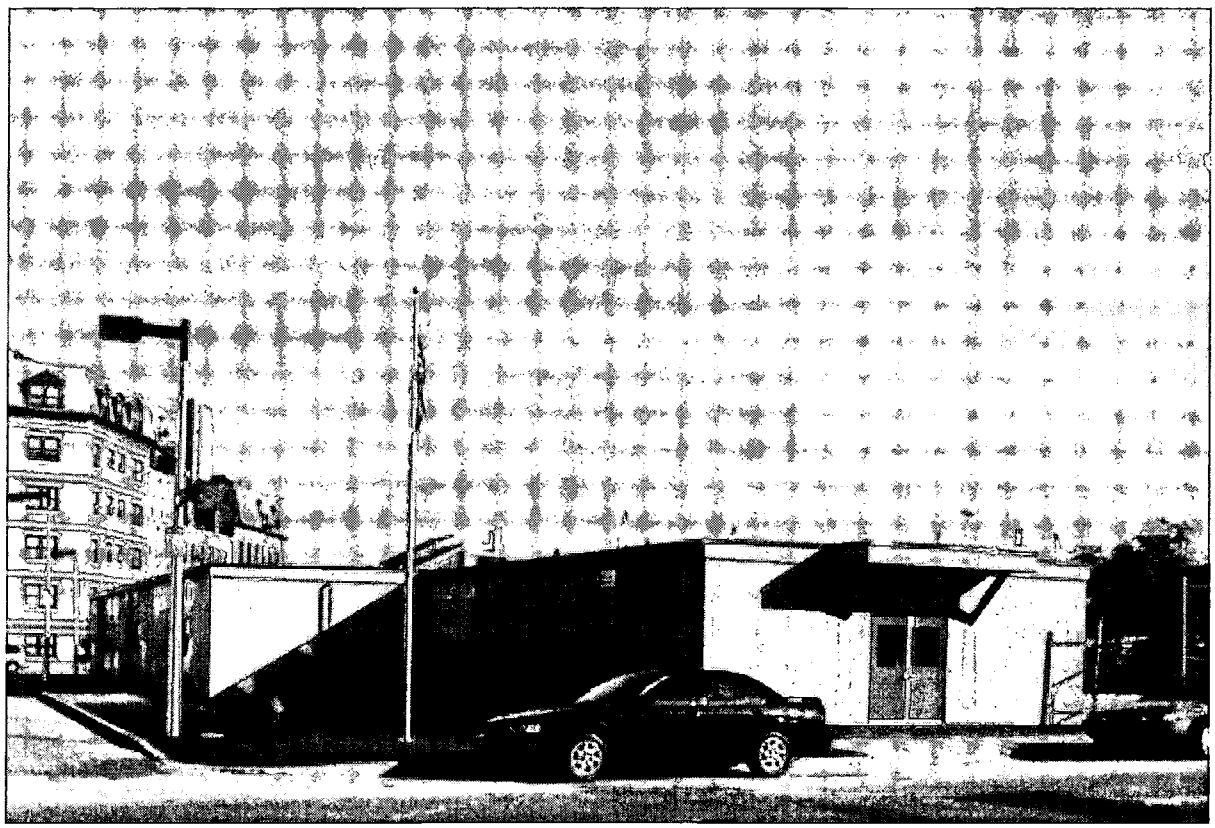

Josiah Quincy Upper School
Boston, Massachussetts

Rotondo Precast Modular supplied this modular school. Composed of 30 precast concrete modules stacked side by side, a second story can be added in future years by simply stacking other modules on top. The floor, roof, and walls are cast with rigid polystyrene insulation and with electrical conduits set inside the concrete. The 8,000 sq. ft. building was completed in just 105 days.

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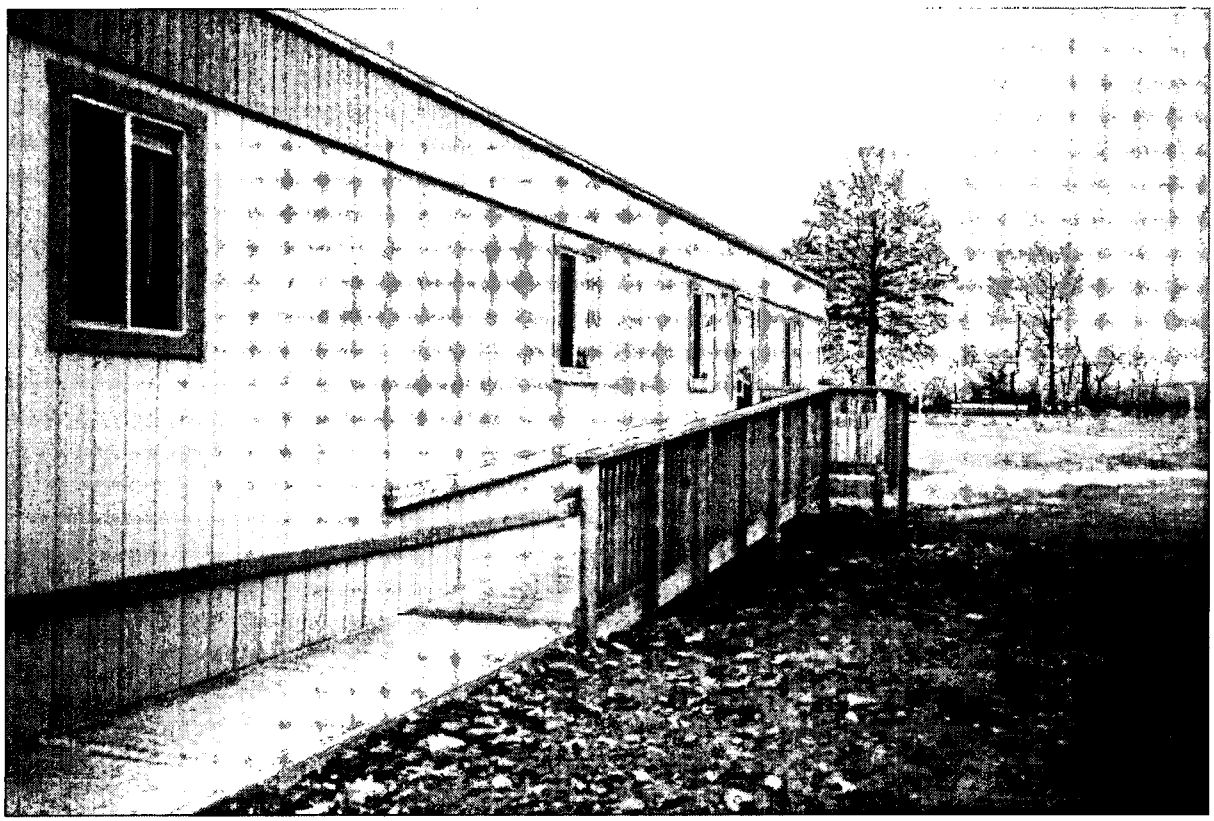

Special Education Building
Oberlin, Ohio

School officials made a wise decision when choosing factory-built classrooms. Their new building was complete in only 35 days and enabled the school to start a special education program ahead of schedule. Three rooms totaling 672 sq. ft. accommodate 8-12 special needs children. The facilities were built for Sommer's Mobile Leasing by Manufactured Structures Corp.

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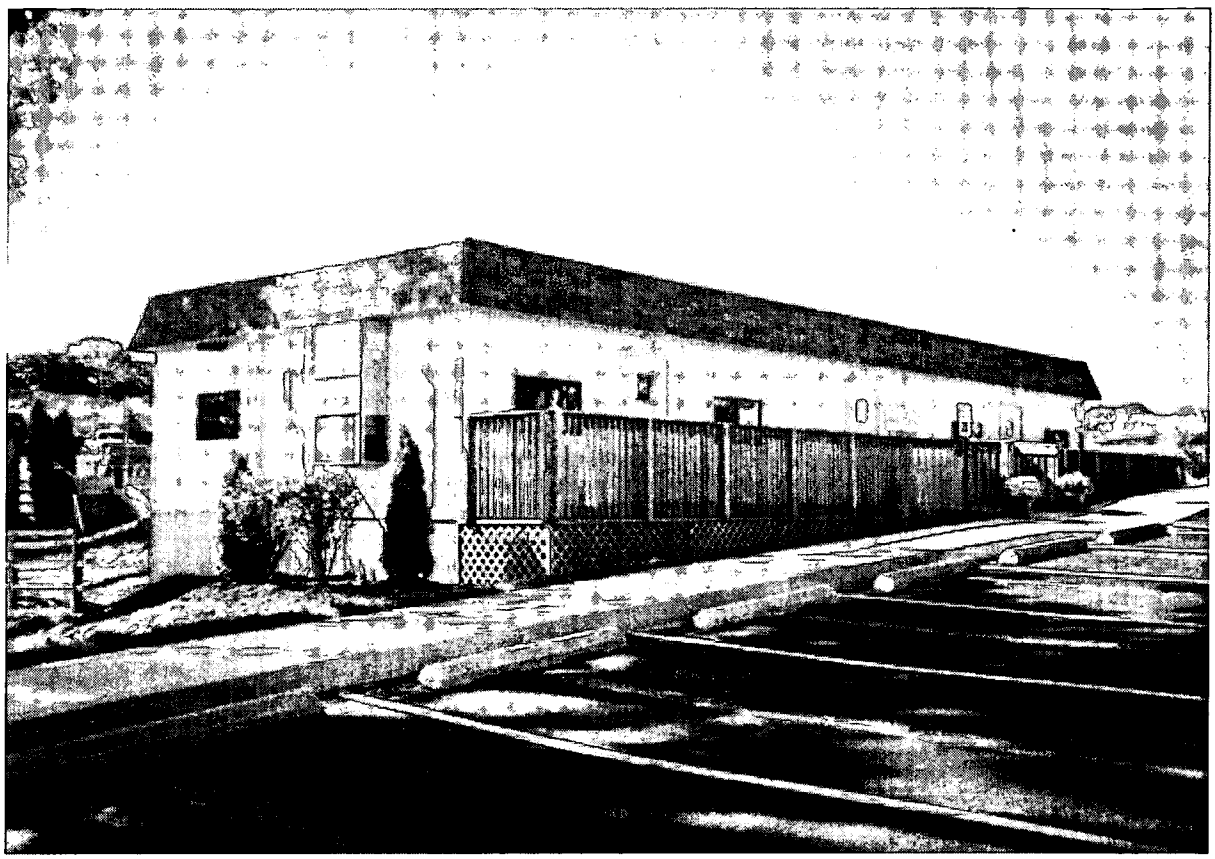

St. Maximilian Kolbe Church
West Chester, Pennsylvania

Being in such an affluent neighborhood, church officials didn't want their new classroom to look like just an "old trailer." So, Wilmot Modular Structures and Whitley Manufacturing rose to the occasion. The church's new building had wood siding and matched the color of the adjacent rectory. The 1,440 sq. ft. classrooms were ready for occupancy in only 67 days.

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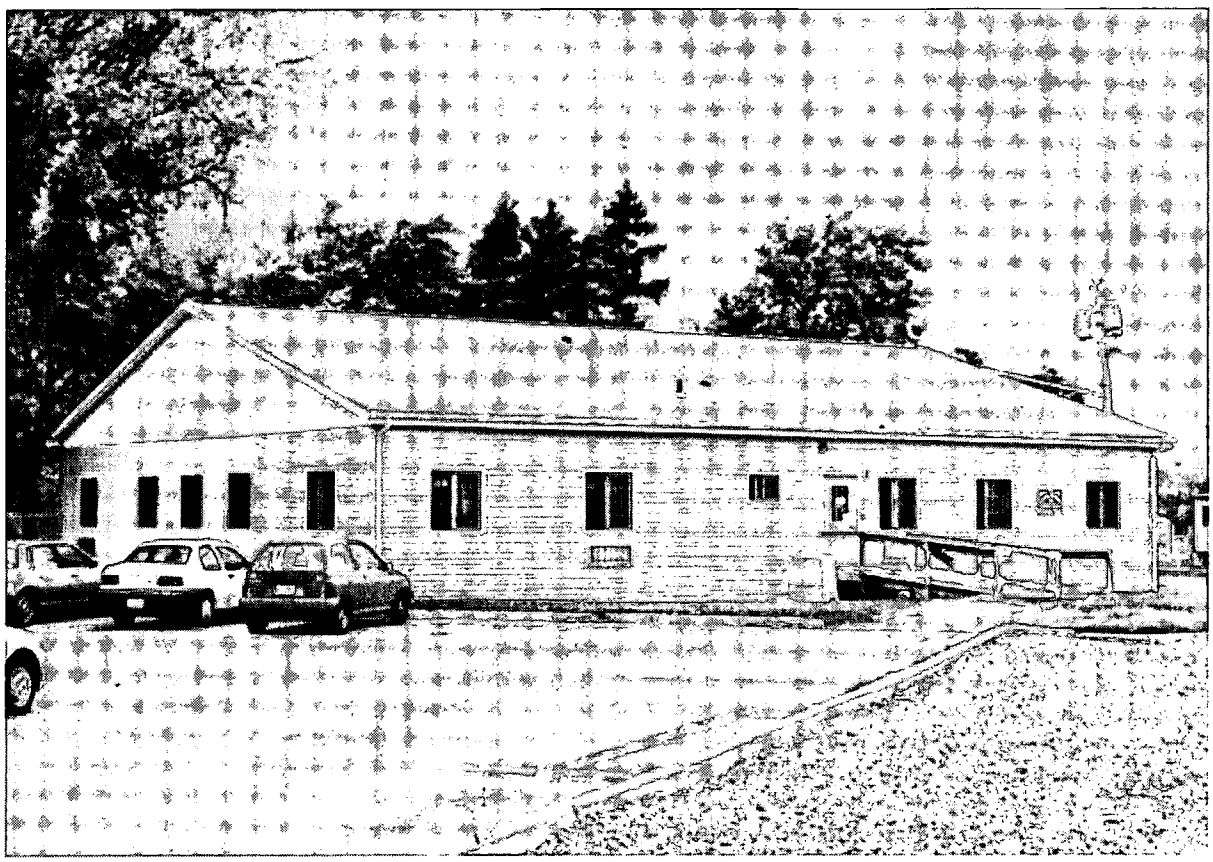

Permanent Daycare Center
Buffalo, New York

For maximum efficiency, this daycare center has a zoned air conditioning and heating system, children's restrooms with small fixtures, and vinyl-covered walls. Factory-built construction eliminated many of the high costs associated with building in the state of New York. Manufactured Structures Corp. and Williams Scotsman completed the project in three and a half months.

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Modular Building Institute, 413 Park Street, Charlottesville, VA 22902
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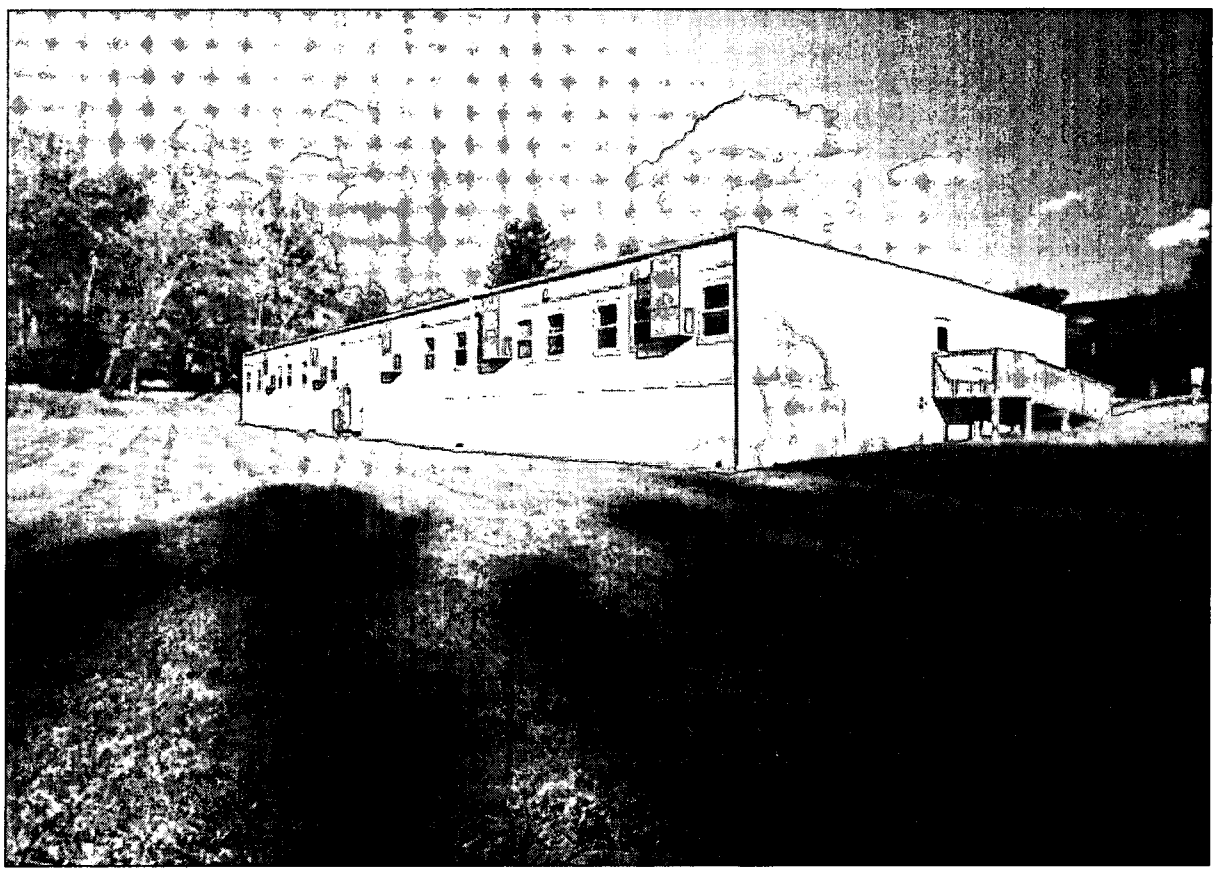

Woodmont Academy
Woodstock, Maryland

This stand-alone building by Williams Scotsman and Markline Industries features classrooms, restrooms, a library, and offices all under one roof. It took 122 days to complete the 7,200 sq. ft. building, which school officials plan to move in two to three years when going to a new location. The building has a low-maintenance exterior and vinyl gypsum interior walls.

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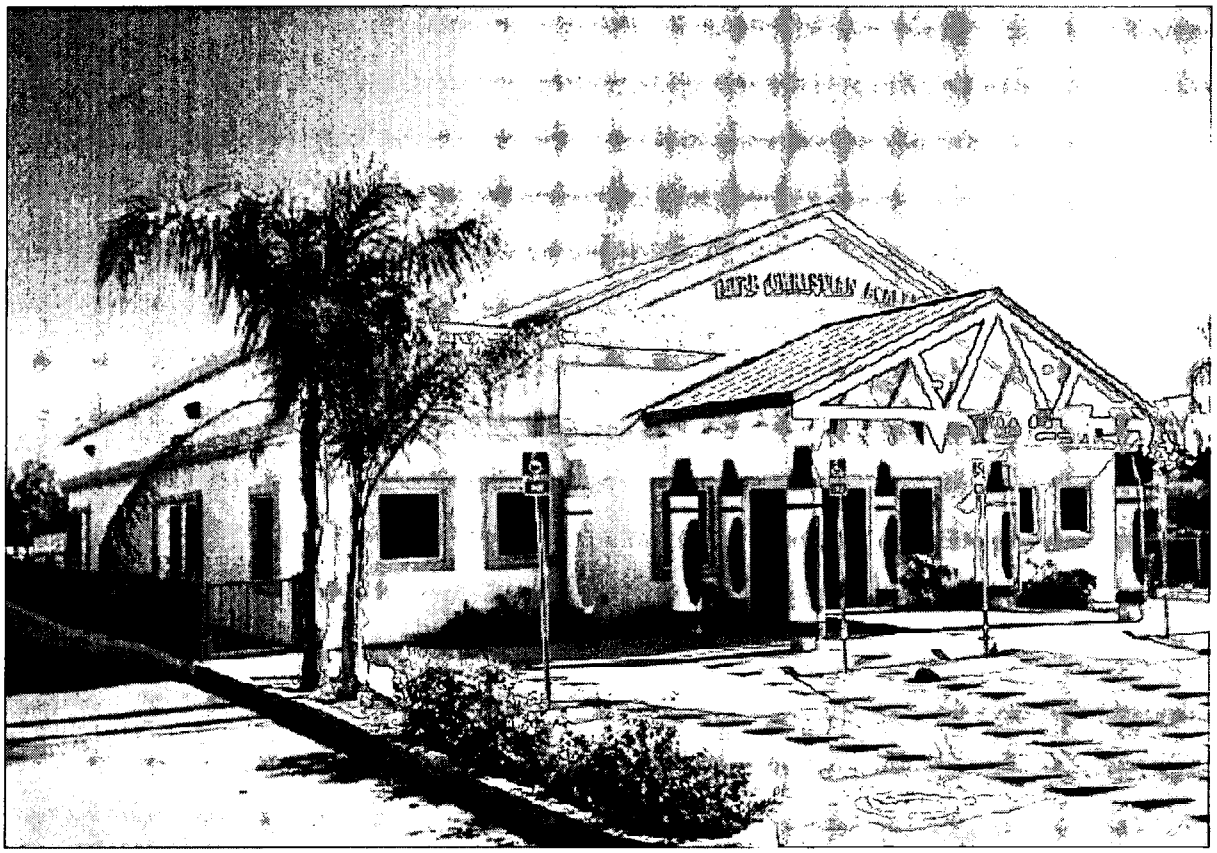

Life Christian Academy
Riverside, California

One of the benefits of factory-built construction is the ability to reconfigure modular buildings. This child care facility, built by Williams Scotsman and Scotsman Manufacturing, involved the conversion of the first floor of another modular building (once used as an engineering office) to the second floor of this one. The project took five months and totals 4,320 sq. ft.

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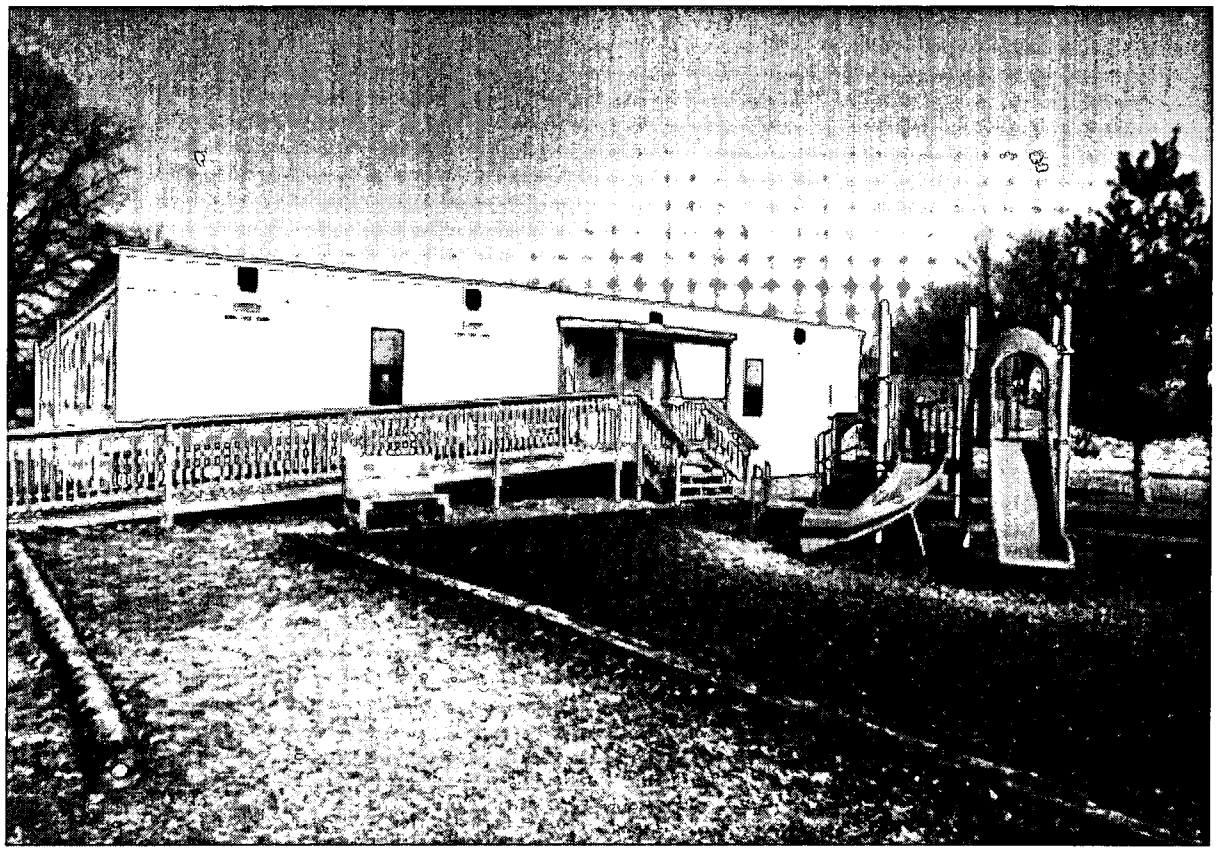

Brice Christian Academy
Columbus, Ohio

This small private school is located on the grounds of Brice United Methodist Church. School and church officials knew that factory-built construction would give them the classroom expansion they needed fast. In just 123 days, Williams Scotsman and Whitley Manufacturing provided the new classrooms. They feature 3,600 sq. ft. of space and a maintenance-free exterior.

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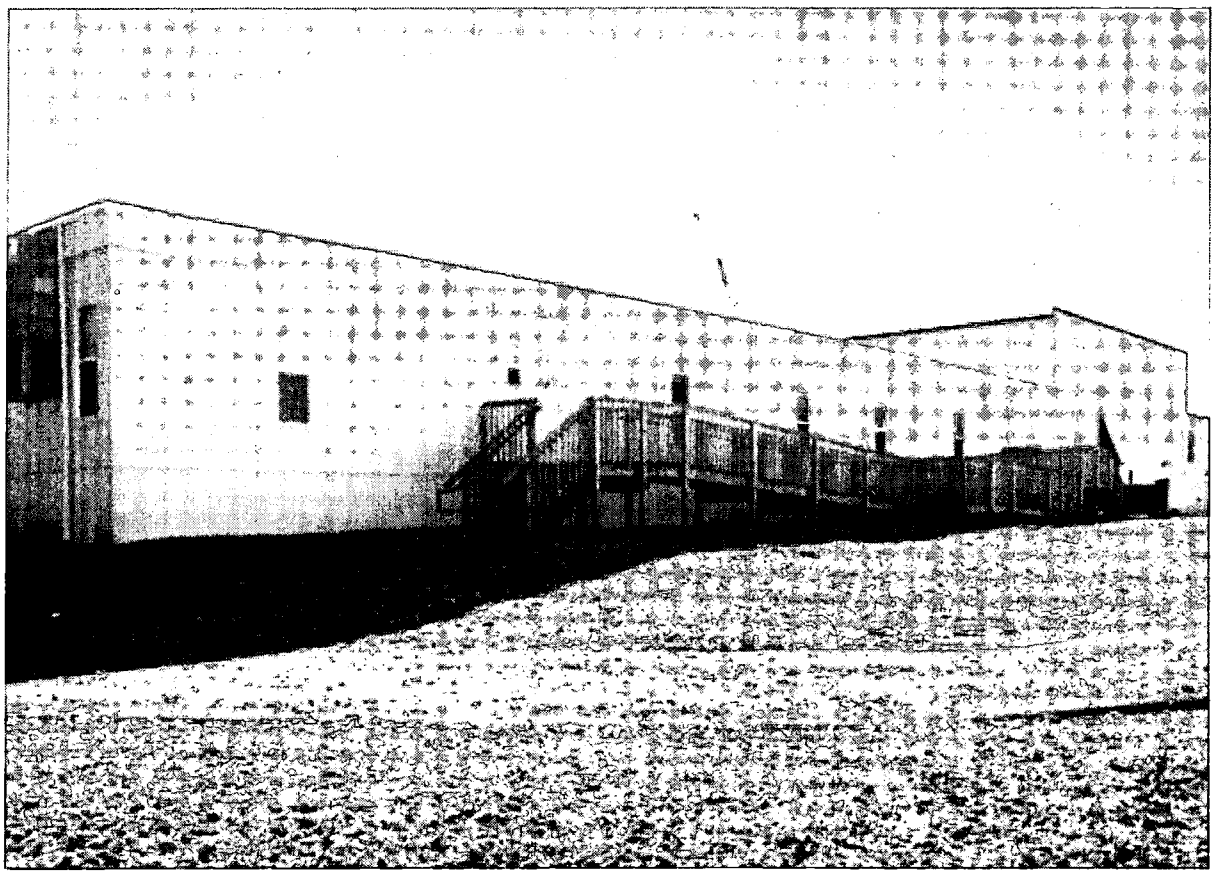

Cincinnati Country Day School
Cincinnati, Ohio

Williams Scotsman and Whitley Manufacturing also designed this classroom facility encompassing all the academic areas of a private high school curriculum. The modular building is being used for a one year period during the renovation of the adjacent permanent school building. The building is made up of 42 modular units, is 31,200 sq. ft., and was completed in 157 days.

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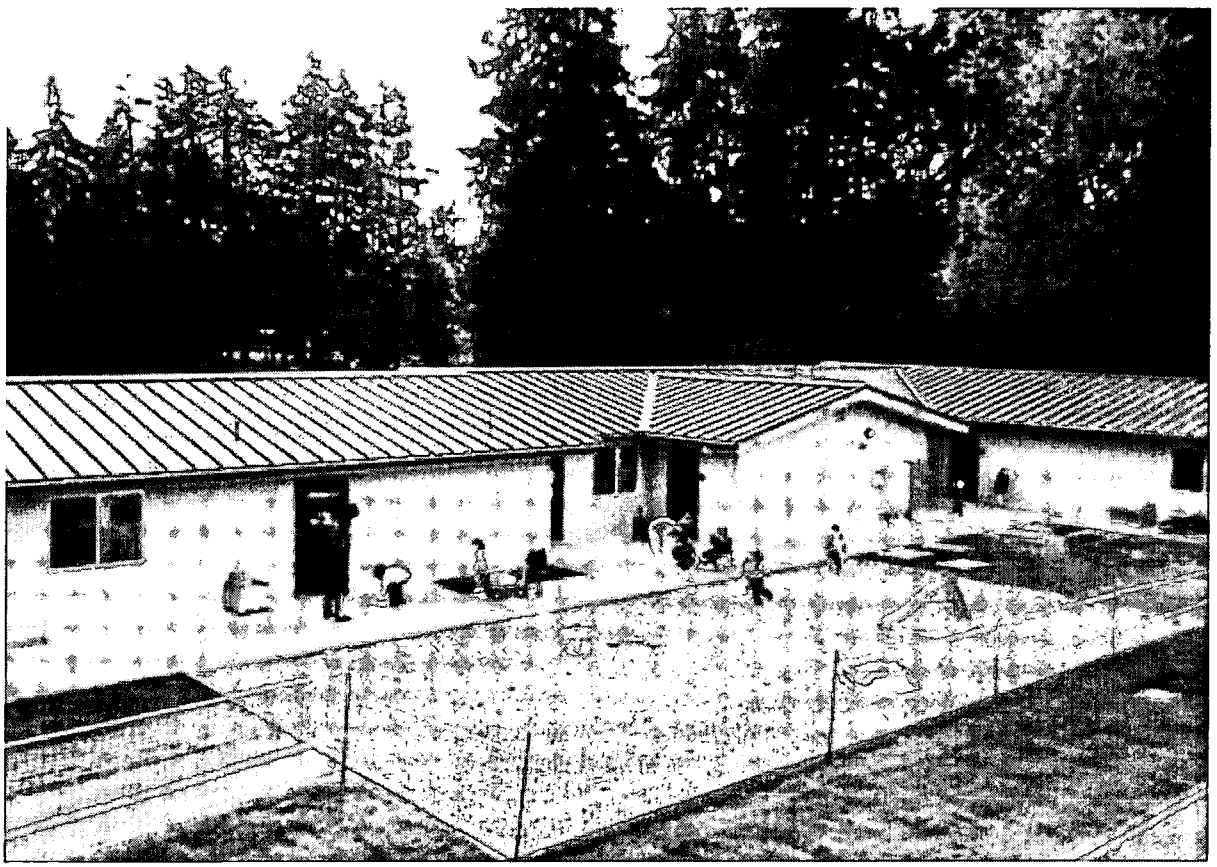

Bellevue Daycare Center
Bellevue, Washington

The architectural appearance of this daycare center by Williams Scotsman and Whitley Evergreen blends into neighboring residential areas and an adjacent existing school. The center is intended for infants to preschool age children. But as demographics change, so can the building. It can even be moved. The center is includes seven 4,990 sq. ft. units and was completed in 102 days.

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